### INDIANA DEPARTMENT OF TRANSPORTATION OFFICE OF MATERIALS MANAGEMENT

### SAMPLE MATERIAL CERTIFICATION FORMS ITM No. 804-16P

### 1.0 SCOPE.

- 1.1 This procedure covers the sample forms to be used for various types of material certifications. Type A, Type B, Type C, Type D and Buy American sample forms are in accordance with the Department's Standard Specifications, Section 916.03. The sample certificate forms contained herein pertain to specific materials.
- 1.2 This ITM may involve hazardous materials, operations, and equipment and may not address all of the safety problems associated with the use of the test method. The user of the ITM is responsible for establishing appropriate safety and health practices and determining the applicability of regulatory limitations prior to use.
- 2.0 **TERMINOLOGY.** Definitions for terms and abbreviations shall be in accordance with the Department's Standard Specifications, Section 101.
- 3.0 SIGNIFICANCE AND USE. This ITM provides sample forms containing required information about materials. Depending on the material, the forms shall be completed and submitted by the Contractor, a manufacturer, a supplier, a fabricator, or other designated companies furnishing the material to a Department contract. The information may be presented in a format convenient to the company; however, the information shall be complete, accurate, pertaining to the materials furnished, and without omissions of required information shown on the sample forms. Unless shown otherwise, the types of certifications shall be in accordance with the Department's Standard Specifications, Section 916.02.

#### 4.0 SAMPLE FORMS.

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### 4.1 Compliance for Plants.

### **CERTIFICATION OF COMPLIANCE FOR PLANTS**

•	following listed plants which were supplied to contract No comply with Indiana Department
Contractor	
of Transportation specification	s set out in subsection 914.08.
The number and specie be the exact pay item.	s of plants supplied shall be listed in this space. The species shall
	and/or Federal funds are involved in the work in which this any misrepresentation on my part constitutes fraud.
(Date)	(Company of Grower)
-	(Signature of Company Official)
I certify that the plants listed al	pove are those used on contract
(Date)	(Signature of Contractor)

### 4.2 Nursery Inspection.

### CERTIFICATE OF NURSERY INSPECTION

No	Indianapolis, Indiana, Date	
This is to certify that	the nursery stock grown by	
located at	, Indiana, consisting of	acres
(hectare	es), has been inspected by the undersigned or his auth	orized
representative, on	, 2 in compliance with Indian	na Code 14-24-5,
14-24-9, 14-24-10, and 14-24	24-11, and has been found apparently free from destru	actively injurious
insects and plant diseases.		
This certificate cover	rsand is	s valid, unless
revoked for cause until Octol	ober 1, 20	
Signed:		
	(State Entomologist)	

### 4.3 Welding Electrode.

### WELDING ELECTRODE CERTIFICATION

	Man	ufacturer's Name and	l Address	S			
Supplied to:							
Date:	Quantity:	Order No.: _		Pr	oject: No	0	
This is to cer	rtify that		ASTN	M-AWS o	classifica	tion (EX	XX) as
	ler the above order nu airements as the electr						ess, and
accordance electrodes ar	tests required by sp with this specification of marked in accordance whemical and mechanic	on and the above ece with AWS A5.1 or	electrode r AWS A	met all 5.5.	the req	uirement	ts. The
	Property	5/32	2 in.	3/10	6 in.	1/4	in.
		DC+	AC	DC+	AC	DC+	AC
Tensile Strer	ngth psi						
Yield Streng	th psi						
Elongation %	% in 2k						
Charpy V No	otch Ft Lbm at °F						
Manganese 9	%						
Silicon %							
Nickel %							
Chromium %	6						
Molybdenum	n %						
Vanadium %	)						
Fillet Tests F	Position as required						
Radiographic	c Test						
Fillet Test. R	Radiograph, Chemistry	, and Mechanical Pro	perties a	are not red	quired fo	r the foll	owing

## 4.4 Fly Ash Source.

### FLY ASH SOURCE CERTIFICATION

	, as contracted by,	certifies
(Broker)	(Power Compa	
that all class fly	y ash, produced by the	
(F or C)	(Name and/or V	Unit No.)
Power Plant of		,
	(Power Company)	
located in	,	, shipped for
(City)	(State)	
Transportation Standard S	with all AASHTO M 295 Specifications and I pecifications requirements, as contracted by,	ndiana Department of
(Broker)	(Power Company)	
quality assurance testing a	ana Department of Transportation Standard Spec nd reporting requirements.	ifications for all
(Date)	(Broker)	
	(Signature)	
		rt of the above named
	mpany) th the production of such fly ash may be checked ana Department of Transportation.	• •
(Date)	(Power Company)	
	(Signature)	

### 4.5 Cement.

### **CEMENT CERTIFICATION**

The			
(Manufacturer and Location)			
certifies that type (type of cemen	cement in this shipment conforms to the t)		
requirements of the Indiana Departme	ent of Transportation Standard Specifications; and Source of		
Shipment	r than production location);		
(if other	r than production location)		
Purchaser and/or Consignee	;		
Point of Delivery	;		
Silo Identification	;		
Carrier and Truck Number	;		
Date of Shipment	;		
Quantity of Cement in kilograms (pou			
and Other Information			
If Portland-Pozzolan cement,	type IP or IP-A, is being shipped, the certification shall		
further state:			
Class of ASTM C 618 Fly Ash	; and Percentage of Pozzolan		
% based on the mass of the	Portland-Pozzolan cement.		
(Date)	(Signature)		

### 4.6 Geotextile Used under Riprap.

### CERTIFICATION FOR GEOTEXTILES USED UNDER RIPRAP

chemically stable long-chain synthmeasurable openings. The plastic synthetic polymer composed of polyamides; and contains stabiliz filaments resistant to deterioration calendered or otherwise finished so respect to each other.	netic polymer material dimer yarn or fibers used in this at least 85 percent by ma ters and inhibitors added to an due to ultraviolet and he	geotextile consist of a longchain ss of polyolefin, polyesters, or to the base plastic to make the at exposure. This geotextile is
I hereby certify that pri D 4354, to represent	yd <sup>2</sup> of	lected in accordance with ASTM geotextile, Lot No. y sampling unit are reported as
follows:	suits of testing each primar	y sampling unit are reported as
Test	Method	Results
Tensile Strength	Grab Tensile Strength ASTM D 4632	lbm
Elongation	Grab Tensile Strength ASTM D 4632	%
Puncture Strength	ASTM D 4833	lbm
Trapezoid Tear	ASTM D 4533	lbm
Ultraviolet Degradation at 150 hours	ASTM D 4355	% Strength retained for all classes
AOS	ASTM D 4751	AASHTO Std.
Permeability**	ASTM D 4491 (permittivity)	ft/day
*Values represent weaker principal **The nominal coefficient or perm nominal thickness. The nominal MPa).	neability was determined by thickness is measured under	
which this material will be used and	d that any misrepresentation o	on my part constitutes fraud.
(Manufacturer's Name)	(Signature o	of Manufacturer's Official)
(Date)	(Title of Of	ficial)

### **4.7** Geotextile Used with Underdrains.

### CERTIFICATION FOR GEOTEXTILES USED WITH UNDERDRAINS

	is a non-woven needle pu	nched or heat bonded geotextile	
consisting of strong, rot resistant dimensionally stable with each oth geotextile consist of at least 85 per and contain stabilizers and inhibite deterioration due to ultraviolet and	er, chemically stable long-cher including selvedges. The cent by weight (mass) of polyors added to the base plastic	ain synthetic polymer materials, plastic yarn or fibers used in this yolefin, polyesters, or polyamides;	
I hereby certify that prid to prid the prid the prid to prid the prid the prid to prid the prid the prid to prid the prid the prid to prid the prid the prid to prid the prid the prid to prid the prid the prid to prid the prid the prid the prid to prid the	yd <sup>2</sup> of	elected in accordance with ASTM geotextile, Lot No.  ry sampling unit are reported as	
follows:		, , , , , , , , , , , , , , , , , , ,	
Test	Method	Results	
Tensile Strength	Grab Tensile Strength ASTM D 4632	lbm	
Seam Strength	ASTM D 4632	lbm	
Puncture Strength	ASTM D 4833	lbm	
Trapezoid Tear	ASTM D 4533	lbm	
Ultraviolet Degradation	ASTM D 4355	%	
at 150 hours	ASTM D 4555	Strength retained for all classes	
AOS	ASTM D 4751	AASHTO Std.	
Permeability**	ASTM D 4491 (permittivity)	ft/day	
*Values represent weaker principal **The nominal coefficient or pern nominal thickness.  I understand that State and/or Fed	neability was determined by eral funds and/or services a	re involved in the work in which	
this material will be used and that a	any misrepresentation on my	part constitutes fraud.	
(Date)	(Manufactu	urer's Name)	
(Sign	nature of Manufacturer's Offi	cial)	
	(Title of Official)		

### 4.8 Ground Granulated Blast Furnace Slag Source.

# GROUND GRANULATED BLAST FURNACE SLAG SOURCE CERTIFICATION

This is to certify that a	all grade, g	ground granulated blast furnace slag (GGBFS),
produced by		
produced by		cturer's Name)
from granulated blast	furnace slag from	
		(Steel Company)
located in		,
	(City)	(State)
manufactured at		
		n of Manufacturing Plant)
using		
appropriate quality co	ontrol. The GGBFS will	of Transportation projects will be produced under a comply with all ASTM C 989 Specification and d Specifications requirements.
		also agrees that any part of the
ground granulated bla		uring plant associated with the production of such checked at regular intervals by properly identified ransportation.
As an approved source	e of ground granulated bl	last furnace slag, shall be in accordance with
the		
	<u> </u>	d Specifications for all quality assurance testing
(Date)		(Manufacturer's Name)
		Signotura

### 4.9 Silica Fume.

### SILICA FUME CERTIFICATION

This is to certify that all si	lica fume produced by			
·	(Supplier's Name)			
from				
	(Manufacturer's Name)			
located in		,		
	(City)	(State)		
manufactured at				
	(Location of Manufactu	aring Plant)		
using				
6	(Type of Manufacturing	g Facility)		
and shipped for use on Indiana Department of Transportation projects shall be produced under				
appropriate quality contro	l. The silica fume may be checked	at regular intervals by properly		
identified representatives	of the Department.			
As an approved supplier of	f silica fume			
shall be in accordance wit	(Supplied Hall quality assurance testing and r	r's Name) reporting requirements.		
(Date)	(Supplie	r's Name)		
	(Signature)			

### 4.10 Type A - Epoxy Coated Reinforcing and Dowel Bars.

# EPOXY COATED REINFORCING AND DOWEL BARS TYPE A CERTIFICATION

Contract Number			
Contractor Name			
Steel Manufacturer Na	ame		
B/L, Invoice or Weigh	Ticket Number		
Material Destination (	other than contract loc	cation)	
•		d by the coater for epoxy coace with the specification lin	
Test	Method	<b>Specification Limits</b>	Range of Test Results
Epoxy Thickness	ASTM A 775		
Coating Flexibility	ASTM A 775		
(Date)		(Coater Company Name)	
	(Signature of C	Coater Company Official)	
		(Title)	

### 4.11 Type B - Reinforcing and Dowel Bars.

### REINFORCING AND DOWEL BARS TYPE B CERTIFICATION

Contract Number			
Contractor Name			
Steel Manufacturer Name _			
B/L, Invoice or Weigh Tick	tet Number		
Material Destination (other	than contract location	n)	
This is to certify that for the	e contract described a	bove, the materials furnis	hed are as follows:
Bar Designation, Grad	e & Heat Number	Quan	tity
The materials comply and a	are in accordance with	n the specification limits.	
Test	Method	Specification Limits	Range of Test Results
Tensile Strength	ASTM A 615		
Yield Strength	ASTM A 615		
Elongation	<b>ASTM A 615</b>		
Unit Weight	<b>ASTM A 615</b>		
Deformation Height (reinforcing bars)	ASTM A 615		
All Chemical analysis requ  ** This certification shall b		-	cations.
(Date)	(Ste	eel Supplier Company Na	me)
	(Signature of Steel	Company Official)	
	(Tit	tle)	

### 4.12 Non-Epoxy PCC Sealer.

### NON-EPOXY PCC SEALER CERTIFICATION

The PCC sealer,	,
	(Sealer Name)
manufactured by	
	(Manufacturer Name)
is a	
	(Sealer Type)
based PCC sealer in accordance with NCH	IRP 244, Series IV, southern climate weathering test.
The percentage of active ingredients is	
The recommended application rate is	
The recommended application method is _	
(Date)	(Signature of Manufacturer Official)
(Title	e of Official)

### 4.13 Neutralized Vinsol Resin Air Entraining Admixtures.

# NEUTRALIZED VINSOL RESIN AIR ENTRAINING ADMIXTURE CERTIFICATION

(Admixture Name)	manufactured by(Manufacturer Name)
(Admixture Ivanie)	(Manufacturer Name)
is an aqueous solution of vinsol	l resin that has been neutralized with sodium hydroxide.
The ratio of sodium hydroxide	to vinsol resin is one part of sodium hydroxide to
parts of vinsol resin, by weight	(mass).
The percentage of solids based	on residue at 221°F is
No other additive of chemical a	agent is present in this solution.
The recommended dosage is	
(Date)	(Signature of Manufacturer Official)
	(Title of Official)

4.14 Air Entraining Admixture Manufactured In Proportions Other Than AASHTO T 157 And Type A, B, C, D, and E Admixtures.

# AIR ENTRAINING ADMIXTURE MANUFACTURED IN PROPORTIONS OTHER THAN AASHTO T 157 AND TYPE A, B, C, D, AND E ADMIXTURES CERTIFICATION

	, manufactur	red by
(Admixture N	(ame)	(Manufacturer Name)
is in accordance with	912.03 for type	(Admixture Name)
The ion content of		is
Chloride is not added	as an ingredient of n	nanufacture.
The recommended ac	lmixture dosage is	
Attached herewith ar	e dated test reports su	abstantiating full compliance with the specifications. If
irregularities are four	d in the test results, c	copies of the original data shall be submitted prior to
reconsideration of the	e certification.	
(Date)		(Signature of Manufacturer Official)
	(Title	e of Official)

### **4.15** Rapid Setting Patch Materials

### RAPID SETTING PATCH MATERIALS CERTIFICATION

	, man	ufactured	by		
(Rapid Setting Patch Mater				nufacturer Name)	
is a single packaged dry m similar applications.	ix rapid setting	patch ma	erial for us	se on bridge decks, h	nighways and
	rec	auires onl	v water iust	prior to mixing, doe	es not
(Rapid Setting Patch Mater			, <b>J</b>	8,	
contain soluble chlorides a additives.	s an ingredient o	of manufac	cture, and d	oes not require chem	nical
			is pack	aged in	bags.
(Rapid Setting Patch Mater	rial Name)		•	lb	
The neat yield iswith a	yd <sup>3</sup> and sh in. (mm)	nall allow ) round ag	a gregate.	percent extensio	on, by weight,
The shelf life of(Rapid Setti	ng Patch Materi		is	months.	
The repair depth range is fi	om	in to	in.		
	d	loes not re	auire curin	g material, nor a bon	ding agent
(Rapid Setting Patch Mater			1	<i>G</i> ,	- 6 · 6 · ·
and may be sealed with an	epoxy sealer.				
		is		color	
(Rapid Setting Patch Mater		_ 15		coror.	
	will be mix	xed using		·	
		is in acco	rdance with	ASTM C 928.	
(Rapid Setting Patch Mater	rial Name)				
(Date)	(Sign	ature of M	Ianufacture	r Official)	
	(Title	of Officia	al)		

### 4.16 Type IA Geogrid

### CERTIFICATION FOR TYPE IA GEOGRID FOR FOUNDATION

is a Geogrid consisting of a regular network of connected
polymer tensile elements with aperture geometry sufficient to permit significant mechanical
interlock with the surrounding material. The geogrid structure shall be dimensionally stable and
shall be able to retain its geometry under construction stresses. The geogrid structure shall have
resistance to damage during construction, ultraviolet degradation, and all forms of chemical and
biological degradation encountered in the soil being stabilized.
I hereby certify that primary sampling units were selected in accordance with ASTM
D 4354 (3.2.1.1), to represent $yd^2$ of $geogrid$ , Lot
No The material contains a minimum of 97% polypropylene in accordance with
ASTM D 4101 and a minimum of 0.5% carbon black in accordance with ASTM D 1603. The
results of testing each primary sampling unit are reported as follows:

Property	Test Method	Unit	Value, min.	<b>Test Results</b>
Aperture Area	Calibered	sq. in	1.3	
Open Area	COE CW02215	percent	$> 50.0 \le 80.0$	
Tensile Modulus				
Machine Direction	ASTM D 6637 1,2,3	lb/ft	10,000	
Cross Machine Direction	ASTM D 6637 1,2,3	lb/ft	10,000	
Ultimate Strength				
Machine Direction	ASTM D 6637 <sup>2,3</sup>	lb/ft	800	
Cross Machine Direction	ASTM D 6637 <sup>2,3</sup>	lb/ft	800	
Ultraviolet Stability	ASTM D 4355			

- 1. Secant modulus at 5%.
- 2. Results for both the machine direction and cross machine directions are required.
- 3. Minimum average roll values shall be in accordance with ASTM D 4759.

I understand that State and/or Federal funds and/or services are involved in the work in which this material will be used and that any misrepresentation on my part constitutes fraud.

(Date)	(Manufacturer Name)
(Signature of Manufacturer Official)	(Title of Official)

### 4.17 Type IB Geogrid

### CERTIFICATION FOR TYPE IB GEOGRID FOR SUBGRADE

is a Geogrid consisting of a regular network of connected
polymer tensile elements with aperture geometry sufficient to permit significant mechanical
interlock with the surrounding material. The geogrid structure shall be dimensionally stable and
shall be able to retain its geometry under construction stresses. The geogrid structure shall have
resistance to damage during construction, ultraviolet degradation, and all forms of chemical and
biological degradation encountered in the soil being stabilized.
The state of the s
I hereby certify that primary sampling units were selected in accordance with ASTM
D 4354 (3.2.1.1), to represent $yd^2$ of geogrid, Lot
No The material contains a minimum of 97% polypropylene in accordance with
ASTM D 4101 and a minimum of 0.5% carbon black in accordance with ASTM D 1603. The
results of testing each primary sampling unit are reported as follows:

Property	Test Method	Unit	Value, min.	<b>Test Results</b>
Aperture Area	Calibered	sq. in	1.3	
Open Area	COE CW02215	percent	$> 50.0 \le 80.0$	
Junction Strength	ASTM D 7737	lb/ft	788	
Tensile Modulus				
Machine Direction	ASTM D 6637 1,2,3	lb/ft	10,000	
Cross Machine Direction	ASTM D 6637 1,2,3	lb/ft	10,000	
Ultimate Strength				
Machine Direction	ASTM D 6637 <sup>2,3</sup>	lb/ft	800	
Cross Machine Direction	ASTM D 6637 <sup>2,3</sup>	lb/ft	800	
Ultraviolet Stability	ASTM D 4355		70% at 500 hrs	

- 1. Secant modulus at 5%.
- 2. Results for both the machine direction and cross machine directions are required.
- 3. Minimum average roll values shall be in accordance with ASTM D 4759.

I understand that State and/or Federal funds and/or services are involved in the work in which this material will be used and that any misrepresentation on my part constitutes fraud.

(Date)	(Manufacturer Name)
(Signature of Manufacturer Official)	(Title of Official)

### 4.18 Type II Geogrid

### CERTIFICATION FOR TYPE II GEOGRID USED FOR EMBANKMENT

	is a Geogrid consi	sting of a regula	r network of con	nected
polymer tensile elements with	_	0		
interlock with the surrounding	material. The geogrid	structure shall be	dimensionally stab	le and
shall be able to retain its geome	etry under constructio	n stresses. The ge	ogrid structure shal	l have
resistance to damage during con	nstruction, ultraviolet	degradation, and a	all forms of chemic	al and
biological degradation encounte	ered in the soil being s	tabilized.		
I hereby certify that	primary sampling un	its were selected in	n accordance with A	ASTM
D 4354 (3.2.1.1), to represent	-			Lot
No The results of te	esting each primary sa	mpling unit are rep	orted as follows:	

Property	Test Method	Unit	Test Results
Open Area	COE CW02215	percent	
Tensile Modulus			
Machine Direction	ASTM D 6637 1,2	lb/ft	
Creep Limited Strength			
Machine Direction at 5% strain	ASTM D 5262 <sup>2</sup>	lb/ft	
Ultraviolet Stability	ASTM D 4355		

- 1. Secant modulus at 2%.
- 2. Minimum average roll values shall be in accordance with ASTM D 4759.

I understand that State and/or Federal funds and/or services are involved in the work in which this material will be used and that any misrepresentation on my part constitutes fraud.

(Date)

(Manufacturer Name)

(Signature of Manufacturer Official)

(Title of Official)

### 4.19 Type III Geogrid

## CERTIFICATION FOR TYPE III GEOGRID USED FOR MODULAR BLOCK WALL

	is a Geogrid of	consisting of	a regular	network	of connected
polymer tensile elements with	aperture geome	etry sufficien	t to permit	significan	nt mechanical
interlock with the surrounding r	naterial. The geo	ogrid structur	e shall be d	imensiona	lly stable and
shall be able to retain its geome	try under constr	uction stresse	es. The geog	grid structı	ure shall have
resistance to damage during con	struction, ultrav	iolet degrada	tion, and all	l forms of	chemical and
biological degradation encounter	red in the soil be	ing stabilized	l.		
I hereby certify that	primary samplir	ig units were	selected in	accordance	e with ASTM
D 4354 (3.2.1.1), to represent	yd <sup>2</sup> of _	ge	eogrid, Lot N	No	The material
shall be high-density polyethyle	ne, HDPE, poly	propylene, P	P, or polyes	ster, PET,	polymers and
have the following properties.	The results of te	sting each pr	imary samp	ling unit a	re reported as

Property	Test Method	Unit	Results (Min)
Open Area	COE CW 02215	percent	
Ultraviolet Stability	ASTM D 4355		
Ultimate Strength, Machine Direction	ASTM D 6637	lb/ft	
Long-Term Design Strength, Allowable,	GRI-GG4	lb/ft	
LTDS, Machine Direction			

- 1. Geogrid shall have an adequate open aperture to establish proper interlock between geogrid and backfill material.
- 2. Minimum Average Roll Value, MARV, in accordance with ASTM D 4759 shall be calculated as the average minus two standard deviations.

3.

follows:

$$LTDS = \frac{T_{ult}}{(RF_{CR})(RF_{IR})(RF_D)}$$

Where:

 $T_{ult}$  = Ultimate strength

 $RF_{CR}$  = Reduction factor for creep

 $RF_{IR}$  = Reduction factor for installation damage

 $RF_D$  = Reduction factor for durability

4. The minimum reduction factors for design are as follows:

 $RF_{CR} = 2.6$  for HDPE, 4.0 for PP, 1.6 for PET

 $RF_{IR} = 1.10$ 

 $RF_{D} = 1.10$ 

5. Independent-laboratory test results for creep test in accordance with ASTM D 5262 shall be submitted.

## CERTIFICATION TYPE III GEOGRID USED FOR MODULAR BLOCK WALL

I understand that State and/or Federal funds and/or services are involved in the work in which this material will be used and that any misrepresentation on my part constitutes fraud.

(Date) (Manufacturer Name)

(Signature of Manufacturer Official)

(Title of Official)

### **4.20** Compliance for Coating Formulation

### **COATING FORMULATION CERTIFICATION**

This certifies the coating f	rmulation
	(Formulation or Product Identification)
of	manufactured by
(Type of Coatin	g) (Manufacturer Name)
at	
	(Plant Location, City & State)
is in accordance with the I	diana Department of Transportation Standard Specifications.
No changes have been made	e to the formulation or to the production process for this coating. The
QCP and MSDS for this co	ating has been provided to the Office of Materials Management and is
current.	
(Date)	(Signature of Manufacturer Representative)
	(Title)

### **4.21** Compliance for Structural Steel Coating Systems

# STRUCTURAL STEEL COATING SYSTEMS CERTIFICATION

This certifies the structural steel coating s	system consisting of
(Primer Identification)	(Intermediate Coating Identification)
and	
(Finish Coa	at Identification)
(Ma	anufacturer Name)
at(Plant Loca	ation City & State)
is in accordance with INDOT Standard S	pecifications. No changes have been made to the
formulations or the production process of	f these coatings. The QCP and MSDS for these
coatings have been provided to the Office	e of Materials Management and are current.
(Date) (Sig	gnature of Manufacturer Representative)
	(Title)

### 4.22 Annual Certification Letter for Reflective Sheeting

### REFLECTIVE SHEETING ANNUAL CERTIFICATION LETTER

This certifies the reflective sheeting types listed below are in accordance with INDOT Standard Specifications. No changes have been made to the production process. The material is the same material as the material that was furnished for the evaluation sample and was subsequently placed on the Indiana Department of Transportation list of approved materials for Reflective Sheeting. The Manufacturer is:

(Manufacturer Name)

at			
	(Manufacture	r Address)	
and the list of products are:			
Product Name/Number	AASHTO Type	Adhesive Class	Color
(Date)	(Signature of	Manufacturer Represent	tative)
	(Title)		

### **4.23** Profile Wall HDPE Liner Pipe Certification.

### CERTIFICATION FOR PROFILE WALL HDPE LINER PIPE

This certifies the Profile W	all HDPE Liner Pipe		
	-	(Product Trade Nam	ne)
of nominal diameter, manufactured by (size)		(Manufacturer Name)	
at			
	ndiana Department of Tra	n, City & State) ansportation Standard Specifica	
F 894. This material is to be included herein.	be used for and by the fo	llowing and is substantiated by	the test results
Contract Number	Contractor N	Jame	
	mation		
Material Destination (if oth	ner than contract location	)	
Test	Method	Specification Limits	Test Results
Resin Density	ASTM D 3350	0.940, minimum	
Resin Melt Index	ASTM D 3350 Condition (190, 2.16)	0.4, maximum	
RSC*	ASTM F 894 @ 3% Deflection	160 minimum for circular installations, 250 minimum for deformed installations	
ID	ASTM F 894	**	
Wall Thickness (Pipe)	ASTM F 894	**	
Wall Thickness (Bell)	ASTM F 894	**	
Wall Thickness (Spigot)	ASTM F 894	**	
Flattening	ASTM F 894	No Defects per F894 on any	
Length	(after 40% Compression)  ASTM F 894	of the three test specimens ± 2 in. of specified or nominal length	
adjustment factor C, in acc	ordance with ASTM D 2 dding on the pipe size.	GTM F 894, X1) may be reported to the mean diameter D, contractor shall include the appropriate the Grooved Press-On Butt 1	are also reported. ropriate value from
(Date)	(Signature of Manufa	cturer's Representative)	(Title)

## **4.24** Solid Wall HDPE Liner Pipe Certification.

### CERTIFICATION FOR SOLID WALL HDPE LINER PIPE

This certifies the Sol	lid Wall HDPE Liner Pip	oe,(Product Trade Nan	;
		(Product Trade Nan	ne)
of nominal	diameter, manufactured	l by(Manufacturer Na	nme)
at			
		t location, City & State)	
AASHTO M 326 or		t of Transportation Standard Specifical erial is to be used for and by the followin.	
Contract Number	Contra	actor Name	
Material Destination	(if other than contract lo	ocation)	
Test	Method	Specification Limits	<b>Test Results</b>
Resin Density	ASTM D 3350	0.940 – 0.955	
Resin Melt Index	ASTM D 3350 Condition (190, 2.16)	0.15, maximum	
Liner OD	AASHTO M 326	*	
Liner Wall Thickness or ID	AASHTO M 326	Nominal OD, in in., divided by 32.5, minimum (For 12 in. use 12.750 in. and for 13 in., use 13.375 in.)Given ID, subtract from OD provided and divide by 2 to determine wall thickness, then use spec above	
Liner DR (Actual Calculated)	AASHTO M 326	30.0, minimum	
Length	AASHTO M 326	Minimum of 99% of specified length, or 1/2 in. less than specified length, whichever is shorter	
* These values vary from AASHTO.	y depending on the pipe	e size. Contractor shall include the	appropriate value
Joint Type (Circle of Other (specify)	ne): Bell/Spigot Screw	Type Grooved Press-On Butt 1	Fused Ext. Welded
(Date)	(Signature of Manuf	facturer's Representative)	(Title)

### 4.25 Asphalt Emulsion

## TYPE A CERTIFICATION FOR ASPHALT EMULSION

Emulsion Supplier:	and		Number
Sample Identification	on:		
Represented Quanti	ity: Sa Gallons	mple Date:	
	Asphalt Em	ulsion	
Test Method	Property	*Limits	Results
AASHTO T 59	Viscosity, Saybolt Furol		
AASHTO T 59	Demulsibility		
AASHTO T 59	Oil Distillate by Distillation		
AASHTO T 59	Residue by Distillation		
AASHTO T 59	Sieve Test		
AASHTO T 49	Penetration @ 25°C		
AASHTO T 50	Float Test @ 60°C		
AASHTO T 301	Elastic Recovery @ 4°C (if applicable)		
*Standard Sp	ecification section 902.01(b)		
Specification section  This material has been	en sampled and tested within the last 14 ca		tandard
Certification is valid	for 14 days after date of signature.		
Signature:	Dat	re:	

### 4.26 Annual Certification for Delineators.

### ANNUAL CERTIFICATION FOR DELINEATORS

Delineator Manufacturer:  Name		
Manufacturer Addr	ess:Address	
Model Number	Description	Approval Number
No changes have bee material that was fur	ineators listed above are in accordance with INDOT Standen made to the production process. The material is the sample and was subsequently playortation list of approved materials for Delineators.	me material as the
The represented deli	neator(s) conform to Standard Specification section 926.0	02
Signature:	Representative Date:	